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 de Kretser, O.; Moffat, A.:

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 2. WISE: a World Wide Web resource database system

 Budi Yuwono; Dik Lun Lee;
[Knowledge and Data Engineering, IEEE Transactions on](#)
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 3. Topic-sensitive PageRank: a context-sensitive ranking algorithm for Web search

 Haveliwala, T.H.;
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 Chi, E.H.; Lichan Hong; Heiser, J.; Card, S.K.;
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 Digital Object Identifier 10.1109/VAST.2006.261418

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 5. AnnoSearch: Image Auto-Annotation by Search

 Xin-Jing Wang; Lei Zhang; Feng Jing; Wei-Ying Ma;
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6. **Similarity-based Web service matchmaking**

Jian Wu; Zhaohui Wu;
[Services Computing, 2005 IEEE International Conference on](#)
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7. **Personal agent for highlighting interesting words**

Xiao Peng; Zheng Chen; Shao-Ping Ma; Wen-Yin Liu; Wei-Ying Ma;
[Machine Learning and Cybernetics, 2002. Proceedings. 2002 International Conference on](#)
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8. **Browsing support by highlighting keywords based on a user's browsing history**

Matsuo, Y.; Fukuta, H.; Ishizuka, M.;
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 Woo, T.Y.C.; La Porta, T.F.; Golestani, J.; Agarwal, N.;
INFOCOM '98. Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE
 Volume 2, 29 March-2 April 1998 Page(s):737 - 747 vol.2
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 Banerjee, S.; Dutta, S.K.;
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- 3. **A fast pattern-match engine for network processor-based network intrusion detection system**
 Rong-Tai Liu; Nen-Fu Huang; Chia-Nan Kao; Chih-Hao Chen; Chi-Chieh Chou;
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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Course 17: Spatial augmented reality: merging real and virtual worlds: Modern approaches to augmented reality](#)

Video files associated with this course are available from the citation page

Oliver Bimber, Ramesh Raskar

August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**

Publisher: ACM Press

Full text available: [pdf\(46.17 MB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software implementations, and current areas of application. Specifically, it will describe techniques for optical combination using single/multiple spatially aligned mirror-beam splitters, image sources, transparent screens and optical holograms. Furthermo ...

3 [Transparent adaptation of single-user applications for multi-user real-time collaboration](#)

Chengzheng Sun, Steven Xia, David Sun, David Chen, Haifeng Shen, Wentong Cai

December 2006 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 13

Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Single-user interactive computer applications are pervasive in our daily lives and work. Leveraging single-user applications for supporting multi-user collaboration has the potential to significantly increase the availability and improve the usability of collaborative applications. In this article, we report an innovative *Transparent Adaptation* (TA) approach and associated supporting techniques that can be used to convert existing and new single-user applications into collaborative ones, ...

Keywords: Application sharing, CoPowerPoint, CoWord, computer-supported cooperative work, operational transformation, transparent adaptation

4 Specification, validation, and synthesis of email agent controllers: A case study in function rich reactive system design



Robert J. Hall

August 2000 **Proceedings of the third workshop on Formal methods in software practice FMSP '00**

Publisher: ACM Press

Full text available: [pdf\(527.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With a few exceptions, previous formal methods for reactive system design have focused on finite state machines represented in terms of boolean states and boolean next-state functions. By contrast, in many reactive system domains requirements engineers and developers think in terms of complex data types and expressive next-state functions. Formal methods for reactive system design must be extended to meet their needs as well. I term a reactive system function rich if expr ...

Keywords: Electronic Mail, Formal Methods, Reactive Systems

5 Semantic interfaces and OWL tools: Semantic email



Luke McDowell, Oren Etzioni, Alon Halevy, Henry Levy

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available: [pdf\(508.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper investigates how the vision of the Semantic Web can be carried over to the realm of email. We introduce a general notion of semantic email, in which an email message consists of an RDF query or update coupled with corresponding explanatory text. Semantic email opens the door to a wide range of automated, email-mediated applications with formally guaranteed properties. In particular, this paper introduces a broad class of *semantic email* processes. For example consider the process ...

Keywords: decision-theoretic, formal model, satisfiability, semantic web

6 Spatial augmented reality: a modern approach to augmented reality: Modern approaches to augmented reality



Oliver Bimber, Ramesh Raskar

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: [pdf\(48.93 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software implementations,

and current areas of application. Specifically, it will describe techniques for optical combination using single/multiple spatially aligned mirror-beam splitters, image sources, transparent screens and optical holograms. Furthermore, ...

7 Level II technical support in a distributed computing environment



Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96**

Publisher: ACM Press

Full text available: [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

8 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(7.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

9 The Desert environment



Steven P. Reiss

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(868.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information sharing among tools, uses a common editor to give high-quality semantic feedback and to integrate different types of software artifacts, and builds virtual files on demand to address specific tasks. All this is done in an open and extensibl ...

Keywords: integrated programming environments, program editors

10 Social network sharing: Recent shortcuts: using recent interactions to support shared activities



John C. Tang, James Lin, Jeffrey Pierce, Steve Whittaker, Clemens Drews

April 2007 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07**

Publisher: ACM Press

Full text available: [pdf\(691.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an empirical study of teams that revealed the amount of extraneous individual work needed to enable collaboration: finding references to other people, finding files to attach to email, managing incoming email attachments, managing the variety of files used in shared activities, and tracking what work is owed to others. Much of this work involves

finding recently accessed objects that are needed again in the user's current task focus. These observations led to the design of Recent S ...

Keywords: coordination, empirical study, multi-device interaction, recent context, recent documents, recent shortcuts

11 A taxonomy of Data Grids for distributed data sharing, management, and processing 

 Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

12 Searching for type-error messages 

 Benjamin S. Lerner, Matthew Flower, Dan Grossman, Craig Chambers
June 2007 **ACM SIGPLAN Notices, Proceedings of the 2007 ACM SIGPLAN conference on Programming language design and implementation PLDI '07**, Volume 42 Issue 6

Publisher: ACM Press

Full text available:  [pdf\(407.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Advanced type systems often need some form of type inference to reduce the burden of explicit typing, but type inference often leads to poor error messages for ill-typed programs. This work pursues a new approach to constructing compilers and presenting type-error messages in which the type-checker itself does not produce the messages. Instead, it is an oracle for a search procedure that finds similar programs that do type-check. Our two-fold goal is to improve error messages while simplifying ...

Keywords: error messages, objective Caml, seminal, type-checking, type-inference

13 Enhancing the email experience: Going with the flow: email awareness and task management 

 Nelson Siu, Lee Iverson, Anthony Tang
November 2006 **Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work CSCW '06**

Publisher: ACM Press

Full text available:  [pdf\(182.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Email use in the context of everyday work practices, or *email flow*, has not been heavily studied. We present the results of a pair of studies examining how users *interlace* email with their day-to-day, ongoing work processes. We demonstrate that our subjects use email as a tool for managing moment-to-moment attention and task focus. We also provide a model of this workflow that builds upon an existing model by Venolia et al. Finally, we provide specific design recommendations to enh ...

Keywords: email deferral, email flow, task management

14 Regular contributions: Interactive video authoring and sharing based on two-layer templates

 Xian-Sheng Hua, Shipeng Li

October 2006 **Proceedings of the 1st ACM international workshop on Human-centered multimedia HCM '06**

Publisher: ACM Press

Full text available:  pdf(964.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid adoption of digital cameras and camcorders leads to a huge demand for new tools and systems that enables average users to more efficiently and more effectively process, manage, author and share digital media contents, in particular, a powerful video authoring tool that can dramatically reduce the users' efforts in editing and sharing home video. Though there are many commercial video authoring tools available today, video authoring remains as a tedious and extremely time consuming task ...

Keywords: interactive multimedia, multimedia authoring, multimedia management, template, video editing

15 Teaching hands-on Linux host computer security

 Rose Shumba

September 2006 **Journal on Educational Resources in Computing (JERIC)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available:  pdf(264.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the summer of 2003, a project to augment and improve the teaching of information assurance courses was started at IUP. Thus far, ten hands-on exercises have been developed. The exercises described in this article, and presented in the appendix, are based on actions required to secure a Linux host. Publicly available resources were used to develop the exercises, which have been successfully utilized since spring 2003 to teach cybersecurity basics classes. The experiences and challenges enco ...

Keywords: Computer security, cryptography, file integrity, file permissions, host security exercises, user accounts

16 Mining specifications and structure: Mining specifications of malicious behavior

 Mihai Christodorescu, Somesh Jha, Christopher Kruegel

September 2007 **Proceedings of the the 6th joint meeting of the European software engineering conference and the ACM SIGSOFT symposium on The foundations of software engineering ESEC-FSE '07**

Publisher: ACM Press

Full text available:  pdf(384.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Malware detectors require a specification of malicious behavior. Typically, these specifications are manually constructed by investigating known malware. We present an automatic technique to overcome this laborious manual process. Our technique derives such a specification by comparing the execution behavior of a known malware against the execution behaviors of a set of benign programs. In other words, we mine the malicious behavior present in a known malware that is not present in a set of b ...

Keywords: behavior-based detection, differential analysis, malspec

17 Experience in using business scenarios to assess COTS components in integrated solutions

Sharon Lymer, WenQian Liu, Steve Easterbrook

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available:  [pdf\(2.99 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Constructing software by integrating commercial off-the-shelf (COTS) components is widely practised, particularly in the IT service industry. For vendors of COTS components, requirements engineering is particularly challenging. To continually improve their products, vendors must identify and analyze problems that occur when their components are used in a wide variety of integrated solutions, and they must anticipate new applications in which their components could be used. In this paper, we desc ...

Keywords: business scenario, commercial-off-the-shelf (COTS), software integration

18 Implementing shared manufacturing services on the World-Wide Web

 J. W. Erkes, K. B. Kenny, J. W. Lewis, B. D. Sarachan, M. W. Sobolewski, R. N. Sum
February 1996 **Communications of the ACM**, Volume 39 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(404.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Individual submissions: The impact of research on middleware technology

 Wolfgang Emmerich, Mikio Aoyama, Joe Sventek
January 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(573.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we address the question whether research had any involvement in the creation of the technology that is being sold in this market? We attempt a scholarly discourse. We present the research method that we have applied to answer this question. We then pr ...

20 MultiJava: Design rationale, compiler implementation, and applications

 Curtis Clifton, Todd Millstein, Gary T. Leavens, Craig Chambers
May 2006 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 28 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

MultiJava is a conservative extension of the Java programming language that adds symmetric multiple dispatch and open classes. Among other benefits, multiple dispatch provides a solution to the binary method problem. Open classes provide a solution to the extensibility problem of object-oriented programming languages, allowing the modular addition of both new types and new operations to an existing type hierarchy. This article illustrates and motivates the design of MultiJava and describes its m ...

Keywords: Java language, MultiJava language, Open classes, augmenting method problem, binary method problem, encapsulation, expression problem, extensible classes, extensible external methods, external methods, generic functions, inheritance, method

families, modularity, multimethods, multiple dispatch, object-oriented programming languages, open objects, separate compilation, single dispatch, static typechecking, subtyping

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21 [Model-driven development of context-aware Web applications](#)  Stefano Ceri, Florian Daniel, Maristella Matera, Federico M. Facca  February 2007 **ACM Transactions on Internet Technology (TOIT)**, Volume 7 Issue 1
Publisher: ACM Press
Full text available:  [pdf\(478.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Context-aware, multi-channel Web applications are more and more gaining consensus among both content providers and consumers, but very few proposals exist for their conceptual modeling. This article illustrates a conceptual framework that provides modeling facilities for context-aware, multichannel Web applications; it also shows how high-level modeling constructs can drive the application development process through automatic code generation. Our work stresses the importance of user-independent ...

Keywords: Context, WebML, adaptive hypertext, conceptual modeling, context-aware Web applications; context-awareness

22 [Improving the aircraft design process using Web-based modeling and simulation](#)  John A. Reed, Gregory J. Follen, Abdollah A. Afjeh  January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 1
Publisher: ACM Press
Full text available:  [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Designing and developing new aircraft systems is time-consuming and expensive. Computational simulation is a promising means for reducing design cycle times, but requires a flexible software environment capable of integrating advanced multidisciplinary and multifidelity analysis methods, dynamically managing data across heterogeneous computing platforms, and distributing computationally complex tasks. Web-based simulation, with its emphasis on collaborative composition of simulation models, ...

Keywords: Java, Web-based simulation, aircraft design, object-oriented

23 [Client-server computing in mobile environments](#)  Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid  June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(233.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

24 [Lending a helping hand: using technology to assist: Technology in spiritual formation: an exploratory study of computer mediated religious communications](#) 

 Susan P. Wyche, Gillian R. Hayes, Lonnie D. Harvel, Rebecca E. Grinter

November 2006 **Proceedings of the 2006 20th anniversary conference on Computer supported cooperative work CSCW '06**

Publisher: ACM Press

Full text available:  [pdf\(319.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we report findings from a study of American Christian ministers' uses of technologies in religious practices. We focus on the use of technologies for spiritual purposes as opposed to pragmatic and logistical, but report on all. We present results about the uses of technologies in three aspects of religious work: religious study and reflection, church services, and pastoral care. We end by examining how the collaborative religious uses of technologies cross and blend work and perso ...

Keywords: religious technologies, spirituality, user experience

25 [Intrusion detection and prevention: Fast and automated generation of attack](#) 

 [signatures: a basis for building self-protecting servers](#)

Zhenkai Liang, R. Sekar

November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**

Publisher: ACM Press

Full text available:  [pdf\(180.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Large-scale attacks, such as those launched by worms and zombie farms, pose a serious threat to our network-centric society. Existing approaches such as software patches are simply unable to cope with the volume and speed with which new vulnerabilities are being discovered. In this paper, we develop a new approach that can provide effective protection against a vast majority of these attacks that exploit memory errors in C/C++ programs. Our approach, called COVERS, uses a forensic analysis of a ...

Keywords: buffer overflow, denial-of-service protection, memory error, signature generation, worm defense

26 [Reports: The impact of research on middleware technology](#) 

 Wolfgang Emmerich, Mikio Aoyama, Joe Sventek

January 2007 **ACM SIGSOFT Software Engineering Notes**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we address the question whether research had any involvement in the creation of the technology that is being sold in this market? We attempt a scholarly discourse. We present the research method that we have applied to answer this question. We then pr ...

27 Autonomous authoring tools for hypertext

 Mark Truran, James Goulding, Helen Ashman
September 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 3

Publisher: ACM Press

Full text available: [pdf\(667.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Autonomous authoring tools are routinely used to expedite the translation of large document collections into functioning hypertexts. They are also used to add hyperlinks to pre-existing hypertext structures. In this survey we describe a taxonomy of autonomous hypertext authoring tools. The classification of any given system is determined by the type and nature of the document analysis it performs.

Keywords: Authoring tools, automatic hypertext generation systems, link generation

28 Assembly instruction level reverse execution for debugging

 Tankut Akgul, Vincent J. Mooney III
April 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 13 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Assembly instruction level reverse execution provides a programmer with the ability to return a program to a previous state in its execution history via execution of a "reverse program." The ability to execute a program in reverse is advantageous for shortening software development time. Conventional techniques for recovering a state rely on saving the state into a record before the state is destroyed. However, state-saving causes significant memory and time overheads during forward execution. Th ...

Keywords: Debugging, reverse code generation, reverse execution

29 Improving hash join performance through prefetching

 Shimin Chen, Anastassia Ailamaki, Phillip B. Gibbons, Todd C. Mowry
August 2007 **ACM Transactions on Database Systems (TODS)**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: [pdf\(904.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Hash join algorithms suffer from extensive CPU cache stalls. This article shows that the standard hash join algorithm for disk-oriented databases (i.e. GRACE) spends over 80% of its user time stalled on CPU cache misses, and explores the use of CPU cache *prefetching* to improve its cache performance. Applying prefetching to hash joins is complicated by the data dependencies, multiple code paths, and inherent randomness of hashing. We present two techniques, *group prefetching*

Keywords: CPU cache performance, CPU cache prefetching, Hash join, group

prefetching, software-pipelined prefetching

30 Programming languages for mobile code



Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(393.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

31 GPRSWeb: optimizing the web for GPRS links



Rajiv Chakravorty, Andrew Clark, Ian Pratt

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Publisher: ACM Press

Full text available: [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The General Packet Radio Service (GPRS) is being deployed by GSM network operators world-wide, and promises to offer users "always-on" data access at bandwidths comparable to that of conventional fixed-line telephone modems. Unfortunately, many users have found the reality to be rather different, experiencing very disappointing performance when, for example, browsing the web over GPRS. In this paper we investigate what causes the HTTP protocol and its underlying transport TCP to underperform in a ...

32 17th International Conference on Software Engineering: Window on the World



July 1995 **ACM SIGSOFT Software Engineering Notes**, Volume 20 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.84 MB\)](#) Additional Information: [full citation](#)

33 The Information Bus: an architecture for extensible distributed systems



Brian Oki, Manfred Pfluegl, Alex Siegel, Dale Skeen

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research can rarely be performed on large-scale, distributed systems at the level of thousands of workstations. In this paper, we describe the motivating constraints, design principles, and architecture for an extensible, distributed system operating in such an

environment. The constraints include continuous operation, dynamic system evolution, and integration with extant systems. The *Information Bus*, our solution, is a novel synthesis of four design principles: core communication protocol ...

34 Measuring and characterizing end-to-end Internet service performance

 Lüdmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

35 Model-directed Web transactions under constrained modalities

 Zan Sun, Jalal Mahmud, I. V. Ramakrishnan, Saikat Mukherjee

September 2007 **ACM Transactions on the Web (TWEB)**, Volume 1 Issue 3

37 Andrew Hogue, David Karger
May 2005 **Proceedings of the 14th international conference on World Wide Web**
WWW '05
Publisher: ACM Press

Full text available:  [pdf\(301.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe Thresher, a system that lets non-technical users teach their browsers how to extract semantic web content from HTML documents on the World Wide Web. Users specify examples of semantic content by highlighting them in a web browser and describing their meaning. We then use the *tree edit distance* between the DOM subtrees of these examples to create a general pattern, or wrapper, for the content, and allow the user to bind RDF classes and predicates to the nodes of these wrappers.

Keywords: RDF, haystack, semantic Web, tree edit distance, wrapper induction

38 **Formalizing the safety of Java, the Java virtual machine, and Java card** 

 Pieter H. Hartel, Luc Moreau
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press

Full text available:  [pdf\(442.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

39 **Gedi: a game engine for teaching videogame design and programming** 

Ron Coleman, Stefen Roebke, Larissa Grayson
December 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 2
Publisher: Consortium for Computing Sciences in Colleges
Full text available:  [pdf\(236.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce Gedi, an open source game engine we maintain and support for teaching videogame design and programming in C++.

40 **Participatory design: Participatory design with proxies: developing a desktop-PDA system to support people with aphasia** 

 Jordan L. Boyd-Graber, Sonya S. Nikolova, Karyn A. Moffatt, Kenrick C. Kin, Joshua Y. Lee, Lester W. Mackey, Marilyn M. Tremaine, Maria M. Klawe
April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**
Publisher: ACM Press

Full text available:  [pdf\(625.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe the design and preliminary evaluation of a hybrid desktop-handheld system developed to support individuals with aphasia, a disorder which impairs the ability to speak, read, write, or understand language. The system allows its users to develop speech communication through images and sound on a desktop computer and download this speech to a mobile device that can then support communication outside the

home. Using a desktop computer for input addresses some of this popul ...

Keywords: aphasia, assistive technology, multi-modal interfaces, participatory design

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41 [Document management and Web technologies: Alice marries the Mad Hatter](#) 

 V. Balasubramanian, Alf Bashian

July 1998 **Communications of the ACM**, Volume 41 Issue 7

Publisher: ACM Press

Full text available:  [pdf\(209.52 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

42 [Training and such: Towards understanding IT security professionals and their tools](#) 

 David Botta, Rodrigo Werlinger, André Gagné, Konstantin Beznosov, Lee Iverson, Sidney Fels, Brian Fisher

July 2007 **Proceedings of the 3rd symposium on Usable privacy and security SOUPS '07**

Publisher: ACM Press

Full text available:  [pdf\(272.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We report preliminary results of our ongoing field study of IT professionals who are involved in security management. We interviewed a dozen practitioners from five organizations to understand their workplace and tools. We analyzed the interviews using a variation of Grounded Theory and predesigned themes. Our results suggest that the job of IT security management is distributed across multiple employees, often affiliated with different organizational units or groups within a unit and respons ...

Keywords: collaboration, ethnography, security management, security tasks, security tools, usable security

43 [Browsing & scrolling: Summarizing personal web browsing sessions](#) 

 Mira Dontcheva, Steven M. Drucker, Geraldine Wade, David Salesin, Michael F. Cohen

October 2006 **Proceedings of the 19th annual ACM symposium on User interface software and technology UIST '06**

Publisher: ACM Press

Full text available:  [pdf\(676.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a system, implemented as a browser extension, that enables users to quickly and easily collect, view, and share personal Web content. Our system employs a novel interaction model, which allows a user to specify webpage extraction patterns by

interactively selecting webpage elements and applying these patterns to automatically collect similar content. Further, we present a technique for creating visual summaries of the collected information by combining user labeling with predefined I ...

Keywords: information management, template-based summarization, webpage extraction patterns

44 Section 05: home and neighbourhood: Pattern-based support for interactive design in  domestic settings

 Andy Crabtree, Terry Hemmings, Tom Rodden
June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques DIS '02**

Publisher: ACM Press

Full text available:  [pdf\(390.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Designing for future domestic environments offers a challenge for everyone involved in the design of new technologies. The move from the office, and working environments in general, has highlighted the need for new techniques for understanding the home and conveying findings to technology developers. This paper presents a pattern-based approach informing the design of technology for future domestic settings. The approach is based on the original work of Alexander and seeks to support the on-goin ...

Keywords: domestic environment, ethnography, patterns of action and technology usage

45 CSCW research at GMD-FIT: from basic groupware to the social Web 

 Peter Hoschka
August 1998 **ACM SIGGROUP Bulletin**, Volume 19 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(632.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

GMD-FIT, the Institute for Applied Information Technology, is a research unit of GMD, Germany's National Research Center for Information Technology. It is located on GMD's Schloss Birlinghoven campus near Bonn. FIT is committed to inventing and designing innovative information technology which is really needed and wanted by users, is based on an understanding of human communication and human information processing, and is seamlessly integrated into the user environment. We pursue a vision of inf ...

46 Understanding and constructing shared spaces with mixed-reality boundaries 

 Steve Benford, Chris Greenhalgh, Gail Reynard, Chris Brown, Boriana Koleva
September 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose an approach to creating shared mixed realities based on the construction of transparent boundaries between real and virtual spaces. First, we introduce a taxonomy that classifies current approaches to shared spaces according to the three dimensions of transportation, artificiality, and spatiality. Second, we discuss our experience of staging a poetry performance simultaneously within real and virtual theaters. This demonstrates the complexities involved in establishing social in ...

Keywords: CSCW, augmented reality, collaborative virtual environments, media-spaces,

mixed reality, shared spaces, telepresence, video, virtual reality

47 Regular contributions: Creating serendipitous encounters in a geographically distributed community

 Adithya Renduchintala, Aisling Kelliher, Hari Sundaram

October 2006 **Proceedings of the 1st ACM international workshop on Human-centered multimedia HCM '06**

Publisher: ACM Press

Full text available:  pdf(595.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper is focused on the development of serendipitous interfaces that promote casual and chance encounters within a geographically distributed community. The problem is particularly important for distributed workforces, where there is little opportunity for chance encounters that are crucial to the formation of a sense of community. There are three contributions of this paper. (a) development of a robust communication architecture facilitating serendipitous casual interaction using online me ...

Keywords: image repository, mediated communication, online media repository, remote interfaces, serendipitous interaction, social computing

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